PROJECT DESCRIPTION

I. GENERAL

This project involves the installation of a new traffic control signal at the intersection of MD 198 and Maryland City Plaza in Anne Arundel County, Maryland.

MD 198 is considered to run in an east/west direction.

II. INTERSECTION OPERATION

The intersection is to operate in a NEMA six (6) phase, full-traffic-actuated mode. There will be exclusive left turn phases for both the east and westbound movements of MD 198. The MD 198 through movements will operate concurrently. The Maryland City Plaza and hotel entrance through movements will currently.

An eight phase, full-traffic-actuated, solid state digital controller with intersection monitor and harness, video detection equipment, battery back-up, and (2) four-channel rack mounted time delay output loop detector amplifiers housed in a base mounted cabinet are to be installed at this location.

EQUIPMENT LIST

A. S.H.A. furnished equipment material.

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B1. Approved S.H.A. equipment to be purchased by the Developer and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

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Quantity Lump Sum	Units	Specification Section	Description						
1	EA	818	27 ft. steel twin mast arm pole with 50 ft. and 70 ft. mast arms						
. 1	EA	818	27 ft. steel mast arm pole with a 50 ft. mast arm						
1	EA	816	Standard S.H.A. traffic signal controller, base mounted cabinet, video detection equipment and three (2) four-channel loop detector amplifiers ENote: Controller and cabinet shall be purchased from Econolite and delivered to the S.H.A. signal shop for wiring and testing. Contact Mr. Ed Rodenhizer (410) 787-76503.						
4	EA		Video detection camera equipment with specified cables (Three - 250, One - 400 ft.)						
	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.						
2	EA	814	12 in., one-way, three section (RA,YA,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.						
2	EA	814	12 in., one way three section (RA,YA,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors						
3 -	EA	813	30 in. x 36 in R 3-5L sign with mast arm mounting hardware.						
1	EA	813	30 in. x 36 in. R3-6(Mod0 with mast arm mounting hardware.						
2	EA	813	24 in. x 30 in. R 4-7 sign for ground mounting.						
4	EA	813	48 in. x 48 in. W 3-3 "NEW" sign for ground mounting.						
2	EA	806	15 ft. luminaire arm.						
2	EA		250 W H.S.P lamp and luminaire.						

B1. Equipment to be furnished and installed by the Contractor.

All equipment in this list shall have catalog cuts submitted for approval prior to installation.

CONTACT LIST

Assistant District Engineer - Traffic

Assistant District Engineer - Utility

Chief, Traffic Operations Division

Mr. Chuck E. George Assistant District Engineer – Maintenance

The Power Company Representative is:

Baltimore Gas and Electric Company

7.317 Parkway Drive South Hanover, Maryland 21076

Ms. Kim Tran

410-841-1019

410-841-1031

410-841-1013

410-787-7630

Mark Lynch

410-859-9054 WMS * 1270620

Mr. Richard L. Daff

Mr. Mark Coblentz

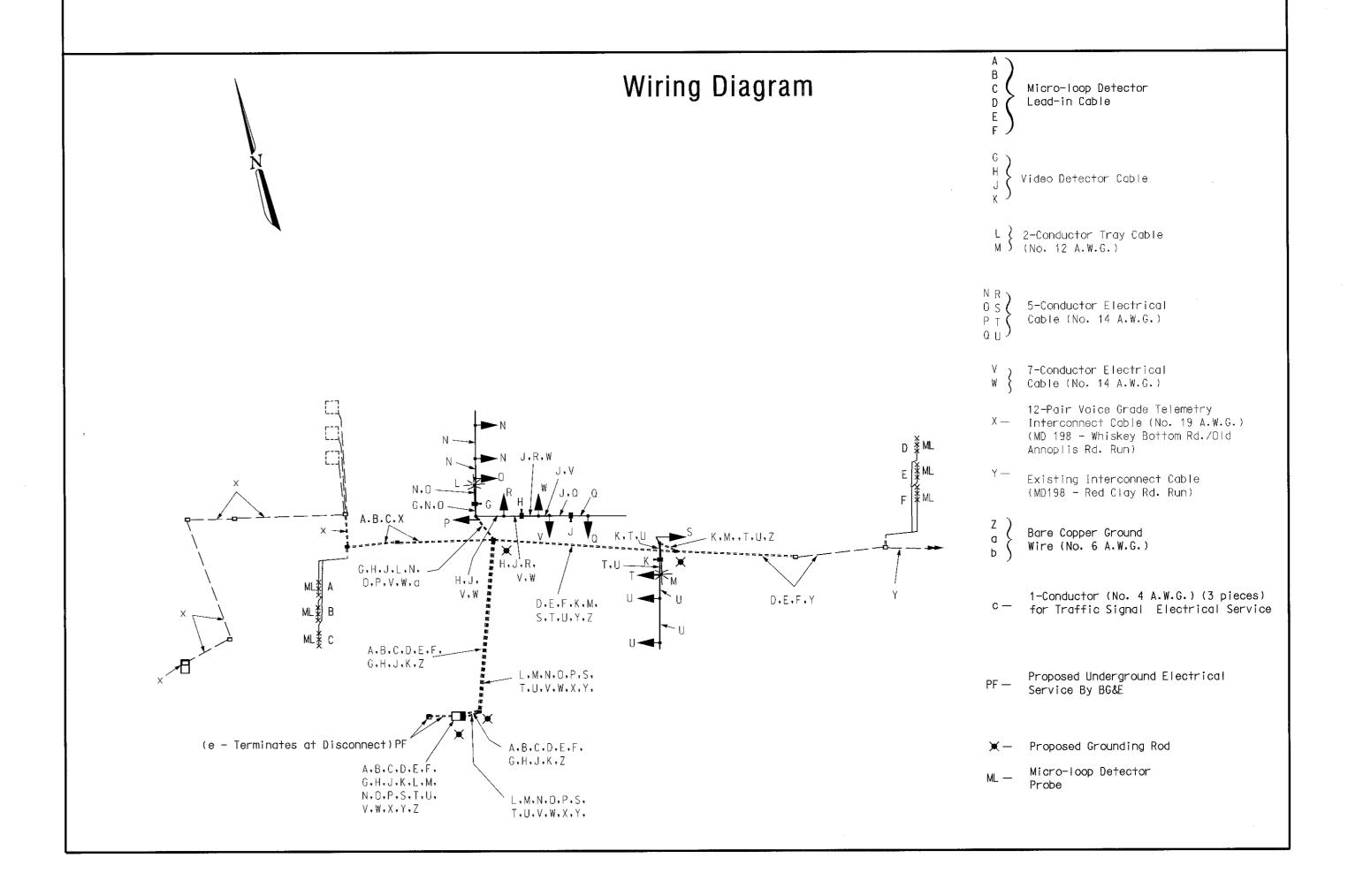
The contact persons for District *5 are as follows:

	Qua	ıntity	Units	Specification Section	Description
	Lump	Sum	LS	108	Mobilization.
*	Lump	Sum	LS	104	Maintenance of traffic.
ત કા		3	CY	205	Test pit excavation.
		5	EA	811	Handhole.
		225	LF	815	Sawcut for signalloop detector.
		75	LF	810	I-conductor electrical cable (No. 4 A.W.G.) (3 pieces).
		400	LF	810	2-conductor electrical tray cable (No. 12 A.W.G.).
		1375	LF	810	5-conductor electrical cable (No. 14 A.W.G.).
		375	LF	810	7-conductor electrical cable (No. 14 A.W.G.).
		250	LF	804	Bare copper stranded ground wire (No. 6 A.W.G.).
		1030	LF		12-pair Voice grade Telemetry Interconnect Cable (NO: 19 A.W.G.)
		20	LF	805	1 in. liquid tight flexible non-metallic conduit for loop detector sleeve.
		20	LF	805	2.5 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
		475	LF	805	3 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
		260	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - bored.
		30	LF	805	4 in. polyvinyl chloride [Schedule 80] electrical conduit - trenched.
		8.5	CY	801	Concrete foundation for traffic signal equipment.
		4	EA	804	Ground rod -¾in. diameter x 10 ft. length.
		1	EA	807	Electrical utility service equipment (120/240 V, one phase, three wire system) for a underground electrical service per MD-SHA Typical 807.05-01
		175	LF	549	24 in. wide HAPPTPM - white for stop line.
		125	LF	549	5 in. wide white pavement marking (paint)
		450	LF	549	5 in. wide yellow pavement marking (paint).
		60	LF	812	4 in. x 4 in. wood sign support.
		165	LF	812	4 in. 6 in. wood sign support.
		2	EA		Relocate ground mounted sign.
		6	LF	806	Micro-loop probe (set of 3) with 750 ft. lead-in cable.
		100	EA		Remove existing pavement markings by grinding.
		1	EA		Interconnect splice.
	Lump	Sum	LS		Relocate existing interconnect cable (approx1350 LF)
	Lump	Sum	LS		Remove existing traffic signal equipment.
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As-built for S.H.A. [on CADD].

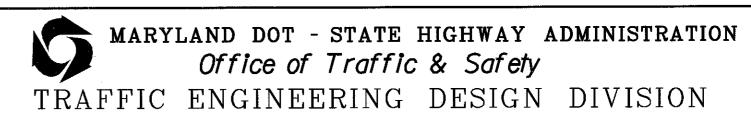
Phase Chart

Phase 1 & 5	← G —	⊸ -G —	R	R	- -G	- G	R	R	R	R	R	R	
1 & 5 Change to Ph	ase 1 & 6 or	Phase 2	& 5 or f	Phase 2	& 6								√
Phase 1 & 6	← G —	- G-	G	G.	← R	 R	R	R	R	R	R	R	<i>•</i>
1 Change	⊸ -Y —	← Y	G	G	⊸ R—	 R	R	R	R	R	R	R	
Phase 2 & 5	≪ -R —	← R	R	R	← G —	⊸ -G —	G	G	Ŕ	R	R	R	4
5 Change	◄- R —	- R−	R	R	← Y —	⊸ Y —	G	G	R	R	R	R	√
Phase 2 & 6	← R —	→ R—	G	G	← R−	⊸ R—	G	G	R	R	R	R	4
2 & 6 Change	← R-	← R—	Y	Y	⊸ R—	← R—	Y	Y	R	R	R	R	-
Phase 4 & 8	- R	 R	R	R	 R	← R—	R	R	G	G	G	G	↑
4 & 8 Change	→ R-	← R —	R	R	← R —	◄- R—	R	R	Y	Y	Y	Y	+
Flashing Operation	FL/R	₹L/_R	FL/Y	FL/Y	- FL∕_R	✓ FL/_R	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	+ 4 + + + + + + + + + + + + + + + + + +





Fax 410-931-6601



(General Information Plan)

MD 198 at Maryland City Plaza

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	CHECKED BY		S.H.A. NO.	BW996M82	<u>4411-Gl</u>	SHEET NO.	İ
ıc.	SCALE:	N/A	COUNTY:	Anne Arundel	T.I.M.S. NO.		ľ
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